

ZERHOV, N.G.; SAMOHUKOVA, T.A.

Clinical aspects, diagnosis and treatment of angiocholecystitis in children. *Pediatrics* no.8:12-18 '62. (MIRA 15:10)

1. Iz Chetvertogo glavnogo upravleniya pri Ministerstve  
zdravookhraneniya SSSR.

(GALL BLADDER--DISEASES) ,  
(BILE DUCTS--DISEASES)

SOV/137-58-9-19610

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 211 (USSR)

AUTHORS: Azarov, K.P., Zerin, V.G.

TITLE: On Titanium Undercoat Enamels for Steel (O titanovykh gruntovykh emalyakh dlya stali)

PERIODICAL: Tr. Novocherk. politekhn. in-ta, 1957, Nr 70/84, pp 159-165

ABSTRACT: Boronfree undercoat enamels (E) with various contents of Ti dioxide were tested to establish its effect on the fusibility of E and the occurrence of boiling and burns in the coatings. It is established that boiling and burns occur in the temperature range corresponding to the slowing down of the softening of E. Ti dioxide increases the fusibility of E Nr 35. The addition of 10% of Ti dioxide, which decreases the formation of boiling and burns of the boronfree base coating is the most effective.

N.L.

1. Enamel coatings--Materials 2. Titanium--Applications 3. Steel  
--Coatings

Card 1/1

HUNG

65-332

Vezinyárv. Szilárd, A világító éjszakai felhőkről. [Noctilucent clouds and their  
origin.] Budapest, 1954. 169-178. May/June 1954. 8 pgs. 2 tables. Russian and French  
summaries p. 169. MH-BR—Recent theories concerning the origin of noctilucent clouds are  
reviewed. Discussed in particular are the theories of VEGARD who believes they  
are derived from solar corpuscular matter.

ZERIN, V. G.

15(2)  
AUTHOR: Vargin, V. V.  
TITLE: Conference on Enamels and Metal Enamelling  
(Sovetskaniye po analizu i metallizatsii metallov)  
PERIODICAL: Stal' i krasilka, 1958, Nr 12, pp 47-48 (USSR)  
ABSTRACT:

The organizers of the conference were Leningradskoye obshchestvo nauko-tekhnicheskoye obshchestvo promyshlennosti stroytel'stva i krasitel'stva (Leningrad Obshchestvo Scientific and Technical Society of the Industry of Building Materials), Leningradskiy sotsializm (Leningrad Council of Social Economy) and Leningradskiy tekhnicheskoy in-stitut metallov (LTI) (Leningrad Technological Institute in-stitute of Metals). The program of the conference included the most im-portant problems of enamel technology, synthesis, enameling of metal prod-ucts and industrial apparatus, heat treatment of enamels, the role of the scientific research and design institutes of the universities, Voronezhskiy, Dnepropetrovsk, Sverdlovskiy, Kiyevskiy, Kharkovskiy, and other. More than 40 reports were given and discussed. Professor K. S. Iverskiy, director of the LTI (Leningrad Technological Institute), in his opening speech stressed the great economic importance of the problem of enameling metal products and apparatus.

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In I. Kiliyova (LTI Leningrad) reported on the influence of metal quality on the formation of "fish-scales" in enamel. A. A. Jipren, Institut Khimii silikatov AN SSSR (Institute of Silicate Chemistry of the AS USSR), spoke on the present stage of the problems of calculating the properties of glass and enamels according to their composition.

M. I. Krasnaya (LTI Leningrad) gave a survey of foreign litera-ture of enamels and metal enamelling. M. I. Krasnaya (LTI Leningrad) (Scientific Research Institute of Sanitary Engineering) reported on the enameling of products in the electric field of a corona discharge. I. O. Petrova, Leningradskiy in-stitut stali (Leningradskiy in-stitut of Steel) spoke of new types of enamels made in this factory.

Card 2/6

In P. E. Krasnaya (LTI Leningrad) reported on the character of interaction between metals and melted enamel. B. S. Salimov, Ural'skiy nauchno-issledovatel'skiy in-stitut Chernykh metallov (Ural'skiy Scientific Research Institute of Ferrous Metals) reported on the influence of the condition of the steel surface on the formation of the enamel coat.

A. I. Burdakov, Institute of Silicate Chemistry of the AS USSR, spoke on the new method of obtaining thin enamel coats of semi-metallic solutions. V. A. Krasnaya spoke on a new enameling method with heating of the products by high-frequency currents.

P. A. Bessonov, Leningradskiy in-stitut tekhnicheskoy metalurgii (Leningradskiy in-stitut of Technical Metallurgy) gave information on new enamels used by the factory.

T. I. Polyubash, Leningradskiy metalurgicheskiy zavod (Leningradskiy Metal Works) reported on the dependence of the soiling angle and the enamel deliquescence on the correlation of boric and non-boric salts.

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Conference on Enamels and Metal Enameling

307/72-56-12-22/23

P.G. Pashch, Leningradskiy gosudarstvennyy universitet (Leningrad State University) reported on the investigation of fritted prime enamels for coating cast iron.  
V.A. Lukhin, Scientific Research Institute of Sanitary Engineering, spoke on the influence of chemical composition on some properties of easily fusible powder enamels.  
By the LTI Iseni Leningrad the following reports were given:  
L.I. Gerasimov on prime-less steel and aluminum enameling.  
M.V. Krasnykh on non-plumbic silicate enamel for aluminum.  
G.A. Kuznetsov on the investigation of a systematic series of oxides for obtaining blue and brown pigments.  
The Sovetskoye Polytechnical Institute gave the following reports:  
K.P. Anzorov on new methods of enamel testing, and on the influence of iron oxide on the physico-chemical properties of the prime coat.  
V.I. Gerasimov on the importance of the gas phase in the burning process of the prime coat.  
V.A. Chistova on phosphate enamels.  
V.A. Podolskaya on prime-less coats.

Collaborators of the Dnepropetrovsk Chemical-Technological Institute reported:

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G.I. Belyayev on the acid content and basicity of enamels, and on the influence of the composition on the properties of prime enamel.  
V.P. Marinov on the damping of enamel by the action of the atmosphere.  
L.V. Furin, Leningradskiy khimiko-plasticheskoy kombinat (Leningrad Chemical Plastics Kombinat) and S.I. Solov'ev (MILITARY) on the experiment of manufacturing enameled chemical apparatus of steel.  
A.M. Zemanova spoke on the causes of blistering of prime enamel. At the Zaporozhskiy "Khimik" zavod (Zaporozhskiy "Khimik" works) and the methods of preventing this fault.  
V.I. Zaychenko, Luganskskiy Komsomol'skiy Irtan, reported on the successful application of vibration grinding for crushing sand and non-boric enamel layers, as well as on the experiment of using white titanium enamel.

V.G. Zayev reported on the improvement in the burning technology of enamel coats in connection with the change-over of furnaces to gas, as well as on prospects of multi-layer enamel burning.  
V.A. Oborin reported on the work of the Leningradskiy Khimiko-Plasticheskoy Kombinat (Leningrad Chemical Plastics Kombinat) on the manufacture of the enamel.  
B.I. Tegerov, representative of the State Office for Planned Economy on the plant's production volume for the next years, as well as on the standard specifications of borax consumption provided.

Card 5/6

The members of the conference passed resolutions for obtaining an improvement in the quality of enamel products, as well as for increasing their production and creating a new technology and new production methods.

S/081/60/000/016/009/012  
A006/A001

Translation from: Referativnyy zhurnal, Knimiya, 1960, No. 16, p. 371, # 66228

AUTHORS: Azarov, K.P., Zerin, V.G.

TITLE: Determining the Amount of Gases in Enamels 15

PERIODICAL: Tr. Novocherk. politekhn. in-ta, 1958, No. 47/61, pp. 229-231

TEXT: The determination of the amount of gases liberating during enamel-  
ling and heating up to 900°C, showed that the enamels are not the sources of gases  
causing bubbling and burnings of boron-free priming coatings.

G. Gerashchenko

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

AZAROV, K.P., dotsent, kand.tekhn.nauk; ZERIN, V.G., assistant

Determination of the amount of gases contained in enamels.  
Trudy NPI 47:229-231 '58. (MIRA 13:5)

1. Novocherkasskiy ordena Trudovogo Krasnogo Znameni  
politekhnikheskiy institut imeni Sergo Ordzhonikidze; kafedra  
tekhnologii keramiki, stekla i enaley.  
(Enamel and enameling) (Gases)

SOV/137-58-8-17503

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 185 (USSR)

AUTHORS: Zerin, V.G., Azarov, K.P.

TITLE: Oxidation of Steel During the Baking of Boric and Boronfree Undercoatings (Okisleniye stali pri obzhige bornykh i bezbornykh gruntovykh pokrytiy)

PERIODICAL: Tr. Novocherk. politekhn. in-ta, 1957, Vol 63/77, pp 59-70

ABSTRACT: It is demonstrated that preliminary treatment (fire and mechanical degreasing, etching) has an effect on the oxidation of steel prior to enameling. A variation of the degree of oxidizability of steel within the 400-1200 mg/dm<sup>2</sup> limits has no notable effect on the quality of boronfree undercoating. In the baking in air, the oxidation of steel depends on the conditions of the baking and the type of coating. By contrast, the oxidation of steel in an inert atmosphere is insignificant, which points to a low oxidizing action of enamel melts, including the boronfree ones. The formation of burned spots is related to the duration of the stay of the undercoatings in a temperature range corresponding to their boiling. The series of stages in the formation of undercoats during heating is established. L.A. 1. Steel--Oxidation 2. Steel--Coatings 3. Enamel coatings--Applications

Card 1/1



ZERINVARY, SZ.

"Atmosphere of Planets", P. 44, (IDOJARAS, Vol. 58, No. 1, Jan./Feb. 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

ZERINVARY, SZ.

"Discovery of Mercury's Atmosphere." p. 753 (TERMESZET ES TARSADALOM.  
Vol. 113, No. 12, Dec. 1954; Budapest, Hungary.)

So: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4,  
April 1955, Uncl..

ZERINVARY, SZ.

How did asteroida come into existence? p. 688. Vol 114, no. 11, Nov. 1955. TERM-  
ESZET ES TARSADALOM. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

ZERINVARY, SZ.

"General meeting of the Huncarian Academy of Sciences", P. 179  
(Idojaras, Vol. 58, No. 3, May/ June 1954, Budapest, Hungary.)

SO: Monthly list of East European Accessions (EEAL), LC, Vol.4,  
No. 3, March 1955, UNCL.

ZERINVARY, Sz.

"Luminous Silver Clouds and Their Origin", P. 169, (IDCJARAS, Vol. 58, No. 3, May/June 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 4, No. 3, March 1955, Uncl.

ZERJAVIC, V.

"Organization of the commercial market for petroleum products in our country." p. 63.  
(NAFTA, Vol. 4, no. 2, Feb. 1953, Zagreb.)

SO: Monthly List of East European Accessions, Vol. 2, #3, Library of Congress  
August, 1953, Uncl.

I. 08952-67 EWT(d)/EWT(m)/EWP(w)/EWP(f) IJP(c) WY/EM

ACC NR: AP6029980

SOURCE CODE: UR/0413/66/000/015/0192/0193

INVENTOR: Zhdanov, K. I.; Zerkalnikov, A. I.

48

ORG: none

TITLE: Stand for the aerodynamic balancing of aircraft propeller blades. Class 42, No. 183984

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 192-193

TOPIC TAGS: propeller blade, aircraft propeller, aircraft maintenance, test stand

ABSTRACT: An Author Certificate has been issued for a stand for the aerodynamic balancing of aircraft propeller blades, which contains a layout block mounted on

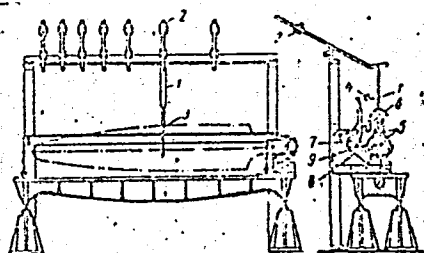


Fig. 1. Aircraft propeller-blade balancing stand

- 1 - Lock; 2 - lever with counterweight;
- 3 - rotatable support; 4 - indicator;
- 5 - levers with holders; 6 - stirrups;
- 7 - flat holder; 8 - support-gib levers;
- 9 - lever lock.

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UDC: 620,178.629.13.01/06

L 08952-67

ACC NR: AP6029980

hoists, a head with a gripping device, pedestals with crossbars attached to the block, and counterweighted levers attached to the upper crossbar. To improve quality and efficiency, the stand is equipped with a mechanism consisting of blade-angle locks attached to the other end of the counterweighted levers, rotatable supports attached to the lower crossbar, and indicators, one end of which interacts with the locks. Orig. art. has: 1 figure. [KT]

SUB CODE: 01/ SUBM DATE: 10Dec63/

Card: 2/2 nat



ZERKALOV, V.I.

Characteristics of the internal structure of pyrite grains  
from Salair pyrite deposits. Zap. Vses. min. ob-va 93 no.3:  
360-364 '64. (MIRA 18:3)

*ZORKIK, MLADON*  
YUGOSLAVIA / Chemical Technology, Chemical Products and Their H-34  
Application. Dyeing and Chemical Treatment of  
Textilos.

Abs Jour : Ref Zhur - Khim., No 3, 1958, No 10, 106

Author : Zorkik, Mladon

Inst : Not given

Title - : The Effect of Atmospheric Conditions upon the Results of  
Measurements in the Quality Control of Textilos.

Orig Pub : Tekstil, 1956, 5, No 1, 7-11

Abstract : The effect of the temperature and humidity of the air upon  
the results of measuring the mechanical strength and other  
characteristics of textiles are considered; graphs for  
correcting the results in accordance with the percent  
humidity of the air are given.

Card 1/1

TARASOV, A. (Rostov-na-Donu); ZERKIN, D. (Rostov-na-Donu); ROMANOV, A.  
(Rostov-na-Donu)

On economic laws. Vop.ekon. no.6:139-143 Je '60.  
(MIRA 13:6)  
(Economics)

ZERKIN, L.T., inzh.; BATURIN, Yu.I., inzh.; SPERANSKIY, A.I., red.;  
KURILKO, T.P., tekhn. red.

[Inventions; the mining industry] Sbornik izobretenii; gornodobyvaiushchaia promyshlennost'. Moskva, TSentr.biuo tekhn. informatsii, 1961. 159 p. (MIRA 15:11)

1. Russia (1923- U.S.S.R.) Komitet po delam izobreteniy i ot-krytiy.

(Mining engineering--Technological innovations)

27.2400

S/058/62/000/006/055/136  
A061/A101

AUTHOR: Zerkl, R. V.

TITLE: General characteristics of radiobiological effects

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 24, abstract 6D178  
(In collection: "Sovrem. probl. biofiziki. T. 2", Moscow, Izd-vo  
in, lit, 1961, 5 - 8)

TEXT: The mechanism of the action of high-energy radiation on biological substances is discussed and confronted with the action of chemical and physical agents and low-energy radiation. The radiation energy transfer to individual molecules of a substance of biological origin is not of a selective nature, and the respective events group into linear tracks. Attempts to explain the mechanism of the action of high-energy radiation on biological objects according to the theory of "direct" and "indirect" radiative action are discussed, as well as such related to the study of linear energy transfer as acting upon the dependence of the effect on the dose, to the effect of molecular oxygen on the sensitivity to radiation, and to the study of surviving power curves of different objects. [Abstracter's note: Complete translation] L. Serdyukova

Card 1/1

ZERKOVITZ, B.

"Answer to the Remarks on the Article 'Some Basic Problems of Designing Modern Autobuses', P. 184, (KOZLEKEDESTUDOMANYI SZEMLE, Vol. 4, No. 5, May 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

ZERKOVITZ, B.

"Some Fundamental Questions in the Planning of Modern Buses." p. 405,  
(KOZLEKEDESTUDOMANI SZEMLE, Vol. 3, no. 11/12, Nov./Dec. 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954/Unclassified

ZERKOVITZ, B.

HUNG.

01. The new model 55 and model 66 Ikarus buses —  
B. Zerkovitz. (Műgyar Technika — Vol. 9, 1964,  
No. 5-6, pp. 310-312, 6 figs.)

The production of two new rear-engined models has been started in Hungary. The Ikarus model 66, for city traffic, has a seating capacity of 100 and a 6-cylinder, 125 HP engine. The engine of the model 55 interurban bus is identical with that of model 66. The underframe and body constitute an integral unit. The principal features are excellent driving properties, utmost passenger comfort, a third hand-operated air brake, independent of the two conventional brakes, which ensures a deceleration of  $2.2 \text{ m/sec}^2$  and ca. also be used as an emergency brake.



ZERKOVITZ, Bela, fomernok

The new Ganz-MAVAG motor series with undivided combustion chamber. Jarmu.mezo.gep. 10 no.9:341-349 S'63

1. Ganz-MAVAG.

ZERKOVITZ, Bela; PARKAI, Istvan

Remarks on the question of diesel traction. Jarmu mezo gep  
6 no.12:366-375 '59.

ZERKOWITZ A.

(2092)

Szfov. Szent Istvan Kozkorhaz Idegosztalyarol. Kiserletes vizsgalatok glycerinaether  
kcszitmenyekkel Experiments with glycerinether preparations Orvosi Hetilap 1948,  
89/24 (380-382)

Myanesin -- a, B-dihydroxy-Y (methylphinoxy) propane -- paralyses the motor  
activity of the spinal cord. It has a greater effect upon the lumbar and sacral segments  
than upon the thoracic and cervical segments. The respiratory muscles are paralysed  
only by much greater doses than are the abdominal and foot muscles. It also blocks  
the action of the sensory synapses in the spinal cord and hence alleviates pains  
of spinal origin (pachymeningitis, multiple sclerosis, spastic conditions, tabes dorsalis).  
Pathological motor stimuli are depressed without influence on the voluntary move-  
ments. 10-20 ml. of a 10% solution intramuscularly produces no toxic signs (haemo-  
lysis, thrombosis).  
Issekutz - Budapest

SO: Excerpta Medica, Vol. 11, No. 4, Sect. 11 - April 1949

ZERKOWITZ, A.

Prevention of headache following lumbar puncture. Orv. hetil.  
91:27, 2 July 50. p. 848-9

1. Neurological Department (Head Physician--Dr. Tibor Lehoszky),  
Szent Istvan Metropolitan Hospital.

CIML 19, 5, Nov., 1950

ZERKOWITZ, B.

New Applications of Light Metals in the [Hungarian] National Motor Industry. Bela Zerkowitz. (Laminium [Budapest], 1959, 2, (7), 171-173).—[in Hungarian]. The extensive use made of Al and Al alloys in the prodn. of Hungarian public-transport vehicles is described.—I. S. M.

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*J. of M.  
M.A.*

New Applications of Light Metals in the (Hungarian)  
National Motor Industry. —Béla Zuckowits. (Aluminium  
(Budapest), 1960, 2, (7), 171-175).—[In Hungarian]. The  
extensive use made of Al and Al alloys in the prodn. of Hun-  
garian public-transport vehicles is described.—I. S. M.

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ZERLING, V. V.

"Influence of Major and Minor Nutrient Elements on Pollen Germination in  
Plants," Dok.AN, 32, No.6, 1941. c1941-.



ZERMAKOV, A.F.

AUTHOR: Vitin, G.V. and Zermakov, A.F.

133-5-20/27

TITLE: On the production of bent profiles. (O proizvodstve gnutykh profiley)

PERIODICAL: "Stal'" (Steel), No.5, pp. 458-463 (U.S.S.R.)

ABSTRACT: Economic advantages of the production of bent profiles (shapes) are discussed. It is pointed out that in the USSR this branch of the industry is little developed. The Iron and Steel Ministry was informed by Gipromez of the requirements of various industries which was estimated to amount to 800 000 tons in 1960. The technology of production of bent profiles is outlined. The diagram of a roller bending mill is shown in Fig. 1. Profiles, the production of which is planned in the sixth Five Year Plan, are shown in Figs. 2 and 3 and their dimensions in Table 1. Main characteristics of roller bending mills are given in Table 2 and their output in Table 3. Cost of construction of building special mills on the Magnitogorsk Metallurgical Combine (Magnitogorskiy Metallurgicheskiy Kombinat) (350 000 tons/year) 56 million Roubles and on the Karagandisk Works (200 000 tons/year) 34.8 million Roubles. It is considered that the production of 800 000 tons/year of bent profiles will give an economy in the consumption of metal

Card 1/2

On the production of bent profiles. (Cont.) 133-5-20/27  
of 200 000 tons/year and thus the cost of building special  
mills will be covered in 2.5 years. There are 3 tables  
and 3 figures.

ASSOCIATION: Gipromez

AVAILABLE:

Card 2/2

ZERNETSKIY, B.F., kand.geologo-mineralogicheskikh nauk

Giant nummulites of the Crimea. Priroda 49 no. 12:9 D '60.  
(MIRA 13:12)

1. Institut geologicheskikh nauk AN USSR, Kiev.  
(Crimea--Nummulites)

KAPTARENKO-CERNOUSOVA, Ol'ga Konstantinovna, prof., doktor geol.-min.nauk;  
GOLYAK, Lyudmila Markovna, inzh.; ZERNETSKIY, Boris Fedorovich,  
kand.geol.-miner.nauk; KRAYEVA, Yelizaveta Yakovlevna, kand.  
geol.-miner.nauk; LIPNIK, Yelena Semenovna, mladshiy nauchnyy  
sotrudnik; DIDKOVSKIY, V.Ya., starshiy nauchnyy sotrudnik, otv.red.;  
MEL'NIK, A.F., red.; MATVEYCHUK, A.A., tekhn.red.

[Atlas of characteristic foraminifers of the Jurassic, Cretaceous,  
and Paleogene in the platform part of the Ukraine] Atlas  
kharakternykh foraminifer iury, mela i paleogena platformennoi  
chasti Ukrainy. Kiev. Izd-vo Akad. nauk URSR, 1963. 200 p.  
(Akademia nauk URSR. Instytut geologichnykh nauk. Trudy. Seriya  
stratigrafii i paleontologii, no.45). (MIRA 16:9)  
(Ukraine--Foraminifera, Fossil)

DYADCHENKO, M.G. [Diadchenko, M.H.]; ZERNETSKIY, B.F. [Zernets'kiy, B.F.];  
TKACHENKO, T.A. [Tkachenko, T.O.]

Mineralogy of liman sands near Stanislav, Kherson Province. Dop.AN  
URSR no.9:1263-1266 '60. (MIRA 13:10)

1. Institut geologicheskikh nauk AN USSR. Predstavleno akademikom  
AN USSR N.P.Semenenko.  
(Kherson Province--Sand)

AYZENVERG, D.Ye. [Aizenverg, D.IE.]; BARANOVA, N.M.; VEKlich, M.P.;  
 GOLYAK, L.M. [Holiak, L.M.]; GORAK, S.V. [Horak, S.V.];  
 DIDKOVSKIY, V.Ye. [Didkovs'kyi, V.IA.]; ZELINSKAYA, V.G.  
 [Zelins'ka, V.O.]; ZERNETSKIY, B.F. [Zernets'kyi, B.F.];  
 KAPTARENKO-CHERNOUSOVA, O.K.; KRAYEVA, Ye.Ye. [Kraieva, YE.IA.];  
 KRASHENINNIKOVA, O.V.; KUTSIBA, A.M.; LAPCHIK, T.Yu.; MAKARENKO,  
 D.Ye.; MOLYAVKO, G.I. [Moliavko, H.I.]; MULIKA, A.M.; PASTERNAK,  
 S.I.; PERMYAKOV, V.V.; ROMODANOVA, A.P.; ROTMAN, R.N.; SLAVIN, V.I.;  
 SOKOLOVSKIY, I.L.; SOROCHAN, O.A.; SYABRYAY, V.T.; TKACHENKO, T.O.;  
 SHUL'GA, P.L. [Shul'ha, P.L.]; doktor geol.-mineral.nauk; YAMNICHENKO,  
 I.M. [Iamnychenko, I.M.]; BONDARCHUK, V.G. [Bondarchuk, V.H.]; akade-  
 mik, otv.red.

[Atlas of paleogeographical maps of the Ukrainian and Moldavian  
 S.S.R. with lithofacies elements. Scale 1:2,500,000] Atlas paleo-  
 geografichnykh kart Ukrain'skoi i Moldav'skoi RSR z elementamy  
 litofatsii. Mashtab 1:2,500,000. Sklady D.IE. Aizenverg i dr.  
 Za zahal'nym kerivnytstvom V.N.Bondarchuka. Kyiv, 1960. xvi p.,  
 78 col.maps. (MIRA 13:12)

1. Akademiya nauk USSR, Kiyev. Institut geologicheskikh nauk.
  2. Institut geologicheskikh nauk AN USSR (for all, except Bondarchuk,  
 Pasternak, Slavin). 3. Instytut geologii korysnykh kopalyn AN URSS  
 (for Pasternak). 4. Moskovskiy gosudarstvennyy universitet im.  
 Lomonosova (for Slavin).
- (Ukraine--Paleogeography--Maps) (Moldavia--Paleogeography--Maps)

ZERNETSKIY, B.F.; MAKARENKO, D.Ye.

Zone with *Variamussium fallax* Korob. in the Paleogene of the Crimean-Carpathian area. Dokl. AN SSSR 139 no.4:950-951 Ag '61. (MIRA 14:7)

1. Institut geologicheskikh nauk AN USSR. Predstavleno akademikom A.L. Yanshinym.  
(Uzhok region--Paleontology, Stratigraphic)  
(Tarkhankut, Cape--Paleontology, Stratigraphic)

ZERNETSKIY, B.F. [Zernets'kiy, B.F.]

Find of Nummulites orbignyi (Galeotti) in the Volga-Don inter-  
fluve. Geol. zhur. 20 no. 5:93-96 '60. (MIRA 14:1)  
(Volga-Don region--Nummulites)



ZERNETSKIY, B.F. [Zernets'kiy, B.F.]

Limestones and dolomites. [Pratsi] Inst. geol. nauk AN URSR,  
Ser. geol. rod. kor. kop. no.1:71-85 '63.

(MIRA 18:6)

ZERNETSKIY, B.F. [Zernets'kiy, B.F.]

New finds of the genus *Pseudosiderolites* in the southern U.S.S.R.  
and their stratigraphic significance. Dop. AN URSR no.10:1363-  
1367 '61. (MIRA 14:11)

1. Institut geologicheskikh nauk AN USSR. Predstavleno akademikom  
AN USSR V.G. Bondarchukom [Bondarchuk, V.H.].  
(Foraminifera, Fossil)  
(Geology, Stratigraphic)

ZERNETSKIY, B.F.

Recent data on the lower Eocene sediments of the northern slope of the Black Sea Depression. Dop.AN URSR no.2:222-224 '61.

(MIRA 14:2)

1. Institut geologicheskikh nauk AN USSR. Predstavleno akademikom AN USSR V.G.Bondarchukom.

(Black Sea region—Geology, Stratigraphic)

ZERNETSKIY, B.F. [Zernets'kiy, B.F.]

New data on upper Eocene sediments in the Sinyukha Basin, Gruzia.  
18 no.3:93-96 '58. (MLA 11:11)  
(Sinyukha Valley--Geology, Stratigraphic)

30(2)

SOV/21-59-4-18/27

AUTHOR: Zernetskiy, B.F.

TITLE: First Finds of Large Nummulites Distant Desh. in the Eocene Deposits of the Northern Black Sea Area

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1959, Nr 4, pp 420-423 (USSR)

ABSTRACT: The author presents a description of a large species Nummulites distant Desh. of the family of Nummulitidae Carpenter, which were found in kern samples of deep boring at Peresyp' (Odessa oblast, at the villages of Koblevo, Vladimirovka, Varvarovka (Nikolayev oblast) and at Kakhovka (Kherson oblast). The species were found in limestone, sandy limestone and lime sandstone deposits, at depths from 485 to 593 m. The deep boring has produced a number of other species of Nummulites and molluscs, which confirms the

Card 1/2

SOV/21-59-4-18/27

First Finds of Large Nummulites Distant Desh. in the Eocene  
Deposits of the Northern Black Sea Area

Middle Eocene geological age of those deposits.  
There are 3 photos, 1 map and 3 references, 1 of  
which is Soviet, 1 French and 1 Hungarian.

ASSOCIATION: Institut geologicheskikh nauk AN UkrSSR (Institute  
of Geological Sciences of the AS UkrSSR)

PRESENTED: By V.G. Bondarchuk, Member of the AS UkrSSR

SUBMITTED: January 7, 1959

Card 2/2

26-58-4-34/45

AUTHOR: Zernetskiy, B.F., Candidate of Geological and Mineralogical Sciences

TITLE: A Puzzling Imprint (Zagadochnyy otpechatok)

PERIODICAL: Priroda, 1958, Nr 4, p 113 (USSR)

ABSTRACT: The author spent the summer of 1955 in the Crimea where he discovered in a ravine a fragment of platy sandstone which showed a puzzling imprint that looked like a bird's footprint (Figure 1). According to ornithologist M.A. Voinstvenskiy's opinion the bird must have been a corn-crake. As the imprint dates back to the Lower Cretaceous period, it is obvious that small birds of this kind existed at that time, a fact that so far had not been proved. There is 1 photo.

ASSOCIATION: Institut geologii Akademii nauk USSR (Kiyev)  
(Institute of Geology of the Ukr. SSR Academy of Sciences, Kiyev)

AVAILABLE: Library of Congress  
Card 1/1

1. Paleontology-USSR 2. Fossils-USSR 3. Geology-USSR

ZERNETSKIY, B.F. [Zernets'kiy, B.F.]

Recent data on the distribution of middle Eocene nummulites in the Black Sea Depression. Dop.AN URSR no.7:938-940 '61.

(MIRA 14:8)

1. Institut geologicheskikh nauk AN USSR. Predstavleno akademikom AN USSR V.G.Bondarchukom [Bondarchuk, V.H.].  
(Black Sea region--Nummulites)



ZERNETSKIY, Boris Fedorovich [Zernets'kyi, B.F.]; DIDKOVSKIY, V.Ya.

[Didkovs'kyi, V.IA.], kand.geol.-mineral.nauk, otv.red.;

MEL'NIK, G.F. [Mel'nyk, H.F.], red.; LIBERMAN, T.R., tekhn.red.

[Nummulites and orbitoids of Paleogene sediments in the Black Sea Lowland] Numulity ta orbitoidy paleogenovykh vidkladiv Prychornomors'koi zapadyny. Kyiv, Vyd-vo Akad.nauk URSR, 1962. 72 p. 18 plates. (Akademia nauk URSR, Kiev Instytut geologichnykh nauk. Trudy, Seriya stratigrafii i paleontologii, no.42).

(MIRA 15:8)

(Black Sea Lowland--Foraminifera, Fossil)

SYABRYAY, V.T. [Siabriai, V.T.]; ZERNETSKIY, B.F. [Zernets'kiy, B.F.]

Fifth All-Union Conference of the Commission on the study of  
Geology in the U.S.S.R. Geol.zhur. 21 no.3:113 '61.

(MIRA 14:7)

1. Institut geologicheskikh nauk AN USSR.  
(Geology—Congresses)

ZERNETSKIY, B.F. [Zernets'kiy, B.F.]

Second All-Union Conference of Specialists on Nummulites. Geol.zhur.  
21 no.3:113-115 '61. (MIRA 14:7)

1. Institut geologicheskikh nauk  
(Nummulites)

ZERNYEV, S.M.

Answers to questions of the Voronezh branch of "Giprokauchuk." From.  
energ. 14 no.3:63 Mr '59.  
(Electric cables) (MIRA 12:4)

JANECEK, Antonin, prof., MVDr.; ZERNICEK, Dobroslav

Reaction of serum with the picric acid. 1. Methods, and normal quantum in healthy people and animals. Veterinarni medicina 7 no.2:117-124 '62.

1. Katedra lekarske chemie, fyziky a toxologie veterinarni fakulty, Vysoka skola zemedelska, Brno.

ZERNICEK, D.; LOJKASKOVA, B.

Qualitative changes in the serum albumin in liver and other diseases. Cas. lek. cesk. 104 no.6:25-38 12 F'65.

1. Vyzkumny ustav veterinarniho lekarstvi v Brne, oddeleni dietetiky a zoohygieny (vedouci: doc. inz. MVDr. J. Vlcek) a Katedra lekarske chemie, fyziky a toxikologie veterinarni fakulty VSE v Brne (vedouci: prof. MVDr. A. Janacek).

SANTIBANEZ, G.; TARNECKI, R.; ZERNICKI, B.

Correlation between the effect of hypothalamic stimulation on EEG and on pupil dilatation in the preparation cerveau isole and pretrigeminal in cats. Acta physiol.polon.11 no.5/6:881-882 '60.

1. Z Zakladu Neurofizjologii Inst.Biol.Dosw. im. M.Nenckiego  
Kierownik: prof.dr J.Konorski.

(HYPOTHALAMUS physiol)

(PUPIL physiol)

(BRAIN physiol)

SANTIBANEZ, G.; TARNECKI, R.; ZERNICKI, B.; KONORSKI, J.

Cortical representation of the chorda tympani in dogs. Acta physiol.  
polon. 11 no.5/6:882-888 '60.

1. Z Zakladu Neurofizjologii Inst.Biol.Dosw. im. M.Nenckiego  
Kierownik: prof.dr J.Konorski.  
(CEREBRAL CORTEX anat & histol)  
(PONS anat & histol)



ZERNICKI, B.; SANTIBANEZ, G.

Effect of bilateral extirpation of the gyrus compositus anterior  
on conditioned and unconditioned food and acid reflexes in dogs.  
Acta physiol.polon. 11 no 5/6:934-935 '60.

1. Z Zakladu Neurofizjologii Inst.Biol.Dosw. im. M.Nenckiego  
Kierownik: prof.dr J.Konorski.

(REFLEX)

(REFLEX CONDITIONED)

(BRAIN physiol)

ZERNICKI, B.; SANTIBANEZ, H.

The effects of ablations of "alimentary area" of the cerebral cortex on salivary conditioned and unconditioned reflexes in dogs. Acta Biol Exp 21:163-176 '61.

1. Department of Neurophysiology Nencki Institute of Experimental Biology, Warsaw.

(CEREBRAL CORTEX physiol.)  
(REFLEX)

(REFLEX CONDITIONED)

ZERNICKI, B.

The effect of prefrontal lobectomy on water instrumental conditioned reflexes in dogs. Acta Biol Exp 21:157-162 '61.

1. Department of Neurophysiology, Nencki Institute of Experimental Biology in Warsaw.

(FRONTAL LOBE physiol)

(REFLEX CONDITIONED)

ZERNICKI, B.; DREHER, B.

Visual fixation reflex in cats with midpontine pretrigeminal transections. Bull. acad. Pol. sci. [Biol.] 13 no.4:305-307 1965.

1. Submitted February 2, 1965.

ZERNICKI, B.

The effect of prefrontal lobectomy on water instrumental conditioned reflexes in dogs. Acta biol exper 21:157-162 '61.

1. Department of Neurophysiology, Nencki Institute of Experimental Biology, Warsaw.

(DOGS) (BRAIN)

ZERNICKI, B.; SANTIBANEZ-H, G.

The effects of ablations of alimentary area of the cerebral cortex on salivary conditioned reflexes in dogs. Acta biol exper 21:163-176 '61.

1. Department of Neurophysiology, Nencki Institute of Experimental Biology, Warsaw.

(DOGS) (BRAIN)

ZERNICKI, B.

Extinction of acid conditioned reflexes. Acta physiol. polon. 8 no.3:  
591-593 1957.

1. Z Zakladu Neurofizjologii Instytutu im. M. Nenckiego w Warszawie  
Kierownik: prof. dr J. Konorski.

(REFLEX, CONDITIONED,  
extinction of acid reflexes (Pol))

ZERNICKI, B.

Effect of the extirpation of the frontal regions of the cerebral hemispheres on conditioned water reflexes of the 2d type. Acta physiol.polon.11 no.5/6:933-934 '60.

1. Z Zakladu Neurofizjologii Inst. Biol. Dosw. im. M. Nenckiego  
Kierownik: prof.dr J. Konorski.  
(FRONTAL LOBE physiol)  
(REFLEX CONDITIONED)



ZERNICKI, B.; OSETOWSKA, E.

Conditioning and differentiation in the chronic midpontine pretreminal cat. Acta biol. exp. 23 no.1:25-32 '63.

1. Department of Neurophysiology, The Nencki Institute of Experimental Biology and Warsaw Laboratory of the Department of Neuropathology, Polish Academy of Sciences.

(REFLEX, CONDITIONED)	(CONDITIONED LEARNING)
(PONS)	(BRAIN) (PHYSIOLOGY)

ZERNICKI, B.; DREHER, B.

Studies on the visual fixation reflex. Pt.1. Acta biol. exp.  
(Warsz.) 25 no.3:187-205 '65.

1. Department of Neurophysiology, The Nencki Institute of  
Experimental Biology, Warsaw 22, Poland.

DREHER, B.; MARCHIAFAVA, P.L.; ZERNICKI, B.

Studies on the visual fixation reflex. Pt.2. Acta biol. exp.  
(Warsz.) 25 no.3:207-217 '65.

1. Department of Neurophysiology, The Nencki Institute of  
Experimental Biology, Warsaw 22, Poland.

ZERNICHI, Bogusław

Isolated cerebrum of midpontine pretectal preparation:  
a review. Acta biol. exp. (Warsz.) 24 no.2:247-284, 1964.

1. Department of Neurophysiology, The Nencki Institute of  
Experimental Biology, Warsaw 22, Poland.

ZEMNITSKIY, I. F.

29314 Terapiya raka vek. Voprosy onkologii i rentgenologii, No 1-2, 1948,  
s. 129-40

SO: Letopsi' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

Distri: 4E3d/4E2c(j)

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Synthetic reactions of dimethylformamide. II. Reactions of ketals with dimethylformamide and phosgene. Zdeněk Arnold and Jiří Žemlička (Čsl. akad. věd, Prague) *Chem. listy* 57, 459-67 (1952); cf. C.A. 51, 13781c. Reactions of ketals with HCONMe<sub>2</sub> (I) and COCl<sub>2</sub> (II) in molar ratio 1:5:2.5 gave various derivs. of β-dicarbonyl compds. II (12.37 g.) in (CH<sub>2</sub>Cl)<sub>2</sub> (III) was dropped into an ice-cooled stirred soln. of 18.23 g. I in III over 30 min. (the total amt. of III being 160 ml.), to the stirred suspension added under ice-cooling 9.71 g. PhCMe(ORt)<sub>2</sub> during 5 min.; the mixt. heated 3 hrs. at 40°, cooled, decompd. with 30.6 g. anhyd. NaOAc and 100 g. ice, the aq. layer extd. twice with 20 ml. III and the org. layer three times with 60 ml. H<sub>2</sub>O, and the org. ext. distd. giving 6.8% PhCCl<sub>2</sub>:CHCHO, b.p. 55-70°. The aq. layer was treated with stirring with K<sub>2</sub>CO<sub>3</sub>, extd. 5 times with 60 ml. 1:1 C<sub>2</sub>H<sub>5</sub>:EtOH, the volatile components distd. *in vacuo*, the residue shaken with 100 ml. H<sub>2</sub>O and 8 30-ml. portions C<sub>2</sub>H<sub>6</sub>, and the benzene ext. evapd. giving 25.7% PhC(NMe<sub>2</sub>):CHCHO, b.p. 180°, m. 61° (Et<sub>2</sub>O). The aq. layer filtered with C and evapd. *in vacuo* gave a solid residue which was dissolved in 150 ml. III, the soln. filtered, evapd. to 50 ml., and treated with 100 ml. Et<sub>2</sub>O to give 44.6% hygroscopic amorphous [PhC(NMe<sub>2</sub>):CHCH:NMe<sub>2</sub>]Cl, m. 205-7° (decomp.); *picrate*, m. 89-90° (50% EtOH). Similar treatment of 10.43 g. PhCBr(ORt)<sub>2</sub> yielded 92.1% PhC(ORt):CMeCHO (IV), b.p. 88-94°. Heating 1.43 g. IV with 20 ml. 4N NHMe<sub>2</sub> in C<sub>2</sub>H<sub>6</sub> in a sealed tube 1.5 hrs., distg. the C<sub>2</sub>H<sub>6</sub>, washing the residual oil several times with petr. ether, extg. the petr. ether soln. with 7 30-ml. portions of H<sub>2</sub>O, evapd. the aq. layer *in vacuo* to 30 ml., extg. the soln. with 3 30-ml. por-

tions of C<sub>2</sub>H<sub>6</sub>, and distg. the ext. gave 63.4% PhC(NMe<sub>2</sub>):CMeCHO, b.p. 110-25° m. 80-1° (Et<sub>2</sub>O). The formylation of iso-PrPhC(ORt)<sub>2</sub> (V) (b.p. 115°, n<sub>D</sub><sup>20</sup> 1.4313) in the described manner failed. Treating 60 g. mussy Zn (activated with a grain of iodine) in 15 ml. C<sub>2</sub>H<sub>6</sub> in 3) min. with 22.71 g. PhCOCMe<sub>2</sub>Br and 20 ml. CH(ORt)<sub>2</sub> in 35 ml. C<sub>2</sub>H<sub>6</sub> on the steam bath, adding 60 g. Zn dust, heating the mixt. 3 hrs. on the steam-bath, decanting the mixt. to a new portion of Zn activated with iodine, refluxing the mixt. 4 hrs., adding 60 g. Zn dust, refluxing the mixt. 3 hrs., treating the cooled mixt. with 60 g. ice and 100 ml. Et<sub>2</sub>O, adding 60 g. AcOH, sepg. the ether layer, washing it with NaHCO<sub>3</sub> and H<sub>2</sub>O, and distg. gave 15.9 g. crude and 14.7% pure PhCOCMe<sub>2</sub>CH(ORt)<sub>2</sub> (Va), b.p. 148°, n<sub>D</sub><sup>20</sup> 1.4940. Adding 0.5 g. Va to 20 ml. stirred and cooled 8% H<sub>2</sub>SO<sub>4</sub> during 30 min., decompg. the mixt. with ice, and filtering of the cryst. product with suction gave 100% PhCOCMe<sub>2</sub>CHO, m. 159-8.5° (75% EtOH), subliming at 145°/0.1 mm. Heating 3 g. V with a trace of p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H with a free flame and distn. yielded PhC(ORt):CMe, b.p. 98-100°, n<sub>D</sub><sup>20</sup> 1.5169. Formylation of 6.61 g. Me<sub>2</sub>C(ORt)<sub>2</sub> by heating the mixt. 3 hrs. at 40°, decompg. the mixt. with ice, treating the aq. layer with K<sub>2</sub>CO<sub>3</sub>, extg. it with 4 40-ml. portions of 1:1 C<sub>2</sub>H<sub>5</sub>:EtOH, evapd. the solvents *in vacuo*, dissolving the cryst. residue in 100 ml. H<sub>2</sub>O, extg. the soln. with CHCl<sub>3</sub>, filtering the aq. layer with C, and evapd. the filtrate *in vacuo* gave 56% [Me<sub>2</sub>C(NMe<sub>2</sub>):CHCH:NMe<sub>2</sub>]Cl (Vb); m. 193-7° (C<sub>2</sub>H<sub>5</sub>N); *picrate*, m. 100-1°. Combined C<sub>2</sub>H<sub>6</sub> and CHCl<sub>3</sub> exts. evapd. and chromatographed on paper in CH<sub>2</sub>(ORt)<sub>2</sub>:H<sub>2</sub>O (VI) gave a mixt. of AcCH:CHNMe<sub>2</sub> (VII) (R<sub>F</sub> 0.21) and MeC(NMe<sub>2</sub>):CHCHO (VIII) (R<sub>F</sub> 0.05).

Zdeněk Arnold and Jiří Zemlička

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Treating 2.41 g. of the  $HCO_2$  salt (IX) of V in 25 ml.  $H_2O$  with 2.8 g. KOH in 20 ml.  $H_2O$  at 25° 2 hrs., filtering off the  $KClO_4$ , adding  $K_2CO_3$  to the filtrate, extg. the mixt. with 3 20-ml. portions  $C_6H_6$ , evapg. the ext., and chromatographing the residue (72.8%) in VI gave a 1:1 mixt. of VII and VIII. Dissolving 3 g. IX in 30 ml. hot  $H_2O$ , adding 1.5 g. KCl in 10 ml.  $H_2O$ , sepg. the  $KClO_4$  after cooling, treating the filtrate at 30-40 mm. with 0.8 g. NaOH in 10 ml.  $H_2O$ , heating the mixt. at 40°/15 mm. 30 min., treating it with  $K_2CO_3$ , extg. with six 25 ml. portions  $C_6H_6$ , and evapg. the solvent gave 55.4% VIII, m. 84° (Et<sub>2</sub>O); *picrate*, prepd. in dioxane, m. 140°. Treating 31.4 g.  $CHCl_3:CHAc$  in 20 ml. 1:1  $C_6H_6-C_6H_5$  with stirring and ice-cooling with 300 ml. 2.3N  $NHMe_2$  in  $C_6H_6$  and 50 ml. PhMe, filtering off the sepd.  $NHMe_2.HCl$ , and evapg. the filtrate gave 77.6% VII, b<sub>p</sub> 111-12°. Treating 10 mg. VIII with 2 ml. 3N  $NHMe_2$

(cyclohexane-MeOH). Treating 7.82 g. K in 100 ml. liquid  $NH_3$  with 5.91 g. pinacol, adding 150 ml.  $C_6H_6$ , evapg. the  $NH_3$ , refluxing the mixt. 1 hr. on the steam-bath, treating the cooled mixt. with 46.29 g.  $Et_2SO$ , refluxing the stirred mixt. 4.5 hrs., adding 31.53 g.  $Bu(OH)_2$  in 200 ml.  $H_2O$ , stirring and refluxing the mixt. 3 hrs., filtering, washing the benzene layer with 3 100-ml. portions  $H_2O$ , and evapg. the  $C_6H_6$  ext. gave 72.8% [ $Me_2C(OEt)_2$ ] (X), b<sub>m</sub> 65-7°, n<sub>D</sub><sup>20</sup> 1.4123. Treating 2.87 g. X with a reagent prepd. from 6.84 g. II and 4.67 g. III and refluxing the mixt. 1 hr. at 60° and 3 hrs. at 70° recovered the X. Treating II and III with 7.91 g. cyclopentanone di- $\beta$ -acetal (XI) at 35° 3 hrs., yielded 47.6% orange oil, b<sub>p</sub> 117-21°, n<sub>D</sub> 1.476°

(Et<sub>2</sub>O), and  $(CH_3)_2C(CHO):CMe_2$ ,  $R_f$  0.045 (in VI). From the mother liquor  $CO_2(CH_3)_2:C:CHNMe_2$  was iso-

lated,  $R_f$  0.2. Treating a mixt. of II and III with 3.61 g. XI and heating the mixt. 3 hrs. at 35-40° yielded 59%  $(CH_3)_2C(OEt):CCHO$ , b<sub>p</sub> 140-60°, m. 33° (Et<sub>2</sub>O), n<sub>D</sub><sup>20</sup> 1.5100 (supercooled); *semicarbazone*, m. 207-7.5° (60% EtOH). M. Huddell

In  $C_6H_6$ , 16 hrs. at room temp. yielded VII. Formylation of 4.37 g.  $Me_2CCl_2C(OEt)_2$  (b<sub>m</sub> 66-7°, n<sub>D</sub><sup>20</sup> 1.4123) at 50° (2 hrs.), decompn. of the mixt. with ice, and treatment of the aq. layer in the described manner yielded  $Me_2CC(OEt):CCHO$ , b<sub>p</sub> 105-10°, n<sub>D</sub><sup>20</sup> 1.4705; *semicarbazone*, m. 163-5° (50% EtOH). Paper chromatography of the cryst. higher boiling fraction (0.2 g., m. 38.5° (Et<sub>2</sub>O), subliming at 35-40° at 0.1 mm.) gave  $Me_2CCOCH:CCHNMe_2$ ,  $R_f$  0.55

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within 48 hr. after the last injection; no lasting sequelae were observed.

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Inst : Moscow Agricultural Academy Imeni K. A. Timiryazev

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Abstract : No abstract given

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Investigation of autoelectronic emission of thin dielectric films. D. V. Zetunov, M. I. Klimov, and N. M. Levin. *Dokl. Akad. Nauk SSSR*, Class. Sci. Ser. A, 1944, 100-81.

Matter [Al]-Al<sub>2</sub>O<sub>3</sub>-Cs<sub>2</sub>O emitters (C.A. 30, 3310<sup>2</sup>) were prepd. by electrolytic oxidation of an Al surface, treating the Al<sub>2</sub>O<sub>3</sub> with Cs vapors and oxidizing the Cs to Cs<sub>2</sub>O. The Al<sub>2</sub>O<sub>3</sub> films were 2700 Å thick. The presence of Cs<sub>2</sub>O in the film increased the stability of the autoelectronic emission. Expts. indicate that most Al<sub>2</sub>O<sub>3</sub> films, owing to the nonuniform thickness and porosity, cannot retain the pos. charges in their surfaces because of ruptures in the films and increased recombination; Cs<sub>2</sub>O fills in the pores, smooths the surface and makes the film more uniform. The dampening of the autoelectronic current during the initial moments after breaking the primary current is comparatively rapid. After several sec. the decrease in the current is retarded considerably and, sometimes, the current is stabilized at a very low value. The rapid initial decrease in the current is attributed to intensive recombination of the surface charge, owing to the presence of a large no. of slow electrons. The stabilization of the autoelectronic current is attributed to the effect of the loss of the residual gas sustaining the charge of the dielec. material, and to the direct ionization of its surface by fast electrons. In MgO films the autoelectronic current is, in the main, analogous to that obtained from the [Al]-

Al<sub>2</sub>O<sub>3</sub>-Cs<sub>2</sub>O films. However, the collector current changed very little with comparatively large variations in the primary current, and the change in the velocity of the primary electrons had no effect on the values of the coeff. The autoelectronic current was stabilized less than 0.5 sec. after the breaking of the primary current, the stationary value of the current remaining considerably higher than with [Al]-Al<sub>2</sub>O<sub>3</sub>-Cs<sub>2</sub>O films. Irradiation of the emitter with primary electrons produced a uniform light-blue radiation on the surface of the emitter (a similar radiation was observed on [Al]-Al<sub>2</sub>O<sub>3</sub>-Cs<sub>2</sub>O films). The brightness of the radiation increased immediately after turning on the primary current and also with the increase in the velocity of primary electrons. Displacement of the primary bundle of the electrons by means of a magnetic field displaced the radiation along the surface of the emitter

ZERNOV, D. V.  
 CA

Anomalous emission of nickel coated with a thin film.  
 D. V. Zernov. *J. Tech. Phys.* (U. S. S. R.) 7, 1787-88  
 (1937); *Chem. Zentr.* 1938, I, 4587. -A preliminary  
 report. In work with an electron-ray commutator under  
 certain conditions during the bombardment of Ni elec-  
 trodes which had become covered with a thin film (prob-  
 ably  $H_2O$ ), a secondary stream or current was observed  
 which persisted for a long time even after the collisions  
 of the primary electrons had ceased. This phenomenon  
 is analogous to the "anomalous secondary electron emis-  
 sion" observed by Muller (cf. C. A. 30, 3319).  
 M. G. Moore

without any perceptible inertia, indicating that the radiation was caused by the excitation of the surface atoms by the primary electrons. Stationary radiating spots whose brightness was considerably greater than that of the radiation was also observed on the MgO films. The position of these spots remained unchanged after the displacement of the primary bundle along the surface of the emitter by means of a magnetic field. Their brightness increased with the increase in the autoelectronic current. These spots did not disappear after breaking the primary current. Rupture of the film resulted in the disappearance of all or of a part of the radiating spots. These spots differed both in their color of radiation and in their brightness from sparks which appeared on rupturing the film. The spots were distributed more or less at random along the surface of the emitter. They appeared also in that part of the emitter that was not irradiated directly by the primary bundle. The properties of these spots indicate that they represent the points at which the autoelectronic current appears. Eighteen references. W. R. Henn

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The Effect of Strong Electric Fields on the  
Secondary Electron Emission from Thin Dielectric  
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Ser. Phys., 1946, Vol. 8, No. 6, pp. 352-356. In  
Russian.) As a result of the action of an electron  
beam on a thin film of dielectric deposited on a  
metallic base, a strong field is built up in the film  
affecting in a number of ways the characteristics of  
the emitter. The effects of the field are enumerated  
and, in order to clarify the processes taking place in  
the film, a mathematical analysis is presented of the  
energy spectrum of the system metal-dielectric-  
vacuum (Fig. 1). Experiments carried out with the  
MgO and  $Al_2O_3$   $C_{50}$  emitters are described, and  
the possibility of obtaining large secondary currents,  
especially in the form of short impulses, is indicated.  
An abstract in English was noted in 2075 of 1946.